

III. REMARKS

1. Claim 43 is amended to correct the noted informality. The change does not limit or narrow the scope of the claim.

2. Claims 1-15, 18-29, 32-40 and 43-49 are not anticipated by Harney et al. ("Harney") under 35 U.S.C. §102(b).

Claim 1 recites an envelope elimination and restoration linear amplifier. Harney does not disclose an envelope elimination and restoration amplifier. The term "envelope elimination and restoration" is a term of art and was coined in 1952. The technique was first proposed in L.R.Kahn, "Single sideband transmission, by envelope elimination and restoration," Proc. IRE, vol. 40, no.7, pp. 803-806, July 1952. In essence, an envelope elimination and restoration amplifier uses a non-linear, high efficiency amplifier circuit, which would normally clip the envelope of an input amplitude modulated signal, and controls the gain of the amplifier circuit in dependence on the envelope of the input signal.

None of the amplifiers in Harney are non-linear. This can be inferred from the fact that the circuit is amplifying analogue TV signals. Consequently, the circuit disclosed in Figure 1 of Harney does not disclose envelope elimination.

Furthermore, in order for the restoration of the envelope to be performed in an envelope elimination and restoration amplifier the envelope of the input signal must be extracted so that it is available to control the gain of the non-linear, high efficiency amplifier. It is quite clear from Figure 1 of Harney that there

is no detection of the envelope that could enable its restoration at a later point.

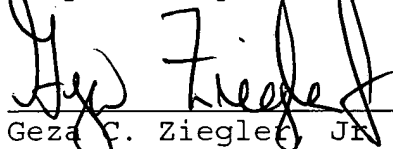
Thus, since Harney does not disclose or suggest at least this feature of Applicant's invention, Harney cannot anticipate claims 1-15, 18-29, 32-40 and 43-49. Thus, the claims should be allowable.

3. Applicant appreciates the Examiner's indication of allowable subject matter in claims 14,17,30,31,41,42,50 and 51, but believes these claims to be allowable for the reasons stated above.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,



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8 MARCH 2005
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